

IRRIGATION SYSTEM, MICROIRRIGATION

DESIGN AND CHECK DATA REQUIREMENTS

The following items must be addressed in the design folder for the Irrigation Systems, Micro irrigation:

Planning Information

The following is a list of the minimum data and documentation to be recorded:

1. Description of the objectives of the practice, including the desired functions which the micro irrigation system is expected to provide.
2. Location and extent of the micro irrigation system. Also note the location and extent of the practice on the conservation map.
3. Soils information as appropriate for the proposed practice.
4. Topographic, profile, or cross section survey information as appropriate for the site conditions and the proposed design.

Design Data

The following is a list of minimum required design data:

1. Documented compliance with Pennsylvania One Call.
2. Calculations which establish the design consumptive use of the crops, the depth of application, the emitter discharge rate, number and spacings of the emitters, and the system capacity.
3. Plan view map showing the source of water and location of all planned components of the irrigation system showing the layout of laterals, emitters, and other components.
4. Pump and water system requirements.
5. Filter requirements.
6. Minimum cover over buried items.

7. Quantity calculations and a cost estimate.
8. O&M Plan.

Construction Check Data/As Built Plans

Verify and document the following where applicable:

1. As Built elevations, if changed.
2. Final layout of the system
3. Red line the design to indicate the construction conformance to the design.
4. Materials certifications.
5. Contractor's certification of conformance.
6. Photographs, if applicable.
7. Records of site visits and significant discussions.
8. Other applicable construction records.